

Climate Mitigation Simulation

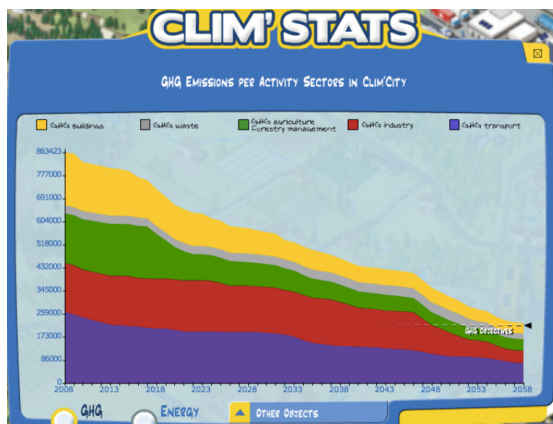
Clim City: Reducing greenhouse gas emissions to limit climate change.

Overview: You will manage a metropolitan city over a 50 year time period where you will have to make decisions regarding city infrastructure, alternative energy sources and policies to effectively reduce your greenhouse gas emissions and energy use while coping with climate change impacts. Specifically you will be tasked with reducing the emissions of a westernized city by 75% in a 50 year period. The means by which you implement your climate plan will determine whether you are successful or not.

Process: You are given 50 years (50 “turns”) to implement any number of climate action steps to reduce greenhouse gas emissions. You will face the obvious challenges with mitigation including costs, public perception and others. To implement different measures requires “action points” including Public Authorities (PA), Enterprises (EP) and Citizens (CP). For each action there is a stated reduction in terms of how that action alters energy usage or greenhouse gas emissions. You earn “action points” through various actions that you take.

Learn more about Clim'Way using <http://climway.cap-sciences.net/us/livret-clim-InEnglish.pdf>

Assignment: Play at least one round of Clim'Way at <http://climway.cap-sciences.net/us/index.php>. You will need to take a screenshot of the time series of greenhouse gas emissions over the 50 year time period you used to provide proof that you completed the game (see below). In addition, you will write up two paragraphs on the strategies that you implemented, as well as the order/time period you implemented them. You may want to discuss which sector was easiest or hardest to achieve reductions, what strategies did not work as you expected and what other actions you would have taken that were not offered as selections. If you had to do it over again, how might you change your action plan?



Climate Impacts

Climate events can and will occur with climate change and result in widespread impacts to your city and resources. Adaptation measures can be taken to avoid repercussions.

